

September  
2004

# Rebuild Michigan



## PARTNER NEWS

### COMMUNITY PARTNERSHIPS

Rebuild Michigan, part of the U.S. Dept. of Energy's Rebuild America program, is designed to foster partnerships, which will promote increased energy efficiency and renewable energy use within communities. The program focuses on community-based energy planning to insure that local needs are met and that a sustained local effort is established.

Community partnerships develop comprehensive energy use strategies and organize a coalition to work towards fulfilling community energy goals. The partnerships identify energy efficiency opportunities in commercial, institutional, and multi-family buildings and encourage installation of improvements that will yield the highest energy and cost savings.

Washtenaw County has received a comprehensive energy analysis from Chevron Energy Solutions outlining the scope of an energy efficiency project which includes major and minor improvements at 18 Washtenaw County facilities. The implementation contract was submitted to the Washtenaw Board of Commissioners which voted unanimously to approve the energy efficiency project.

Rebuild Delta County is submitting a completed energy efficiency project "success story" to Rebuild America for publication. The county courthouse, an office building, and the jail were outfitted with T-8 fluorescent lamps and electronic ballasts as well as new energy efficient water heaters. Annual cost savings for the energy project are estimated at \$8,000. Congratulations to Delta County in becoming a leading partner through Rebuild America!

GLREA: The Rebuild Greater Lansing School District partnership has installed a 1kW photovoltaic system in Woodcreek Elementary. The PV system will feed performance data into the computers at school for the students to use in the classroom lessons. The coalition also held a meeting with US EPA to implement a chemical management system in the Lansing School District.

MSU: Approximately 10,000 parents and students visited Residence Hall rooms equipped with Energy Star equipment which was displayed in 10 buildings across campus. Draft Energy Audit reports for 5 Residence Hall's were finalized, and Rebuild MSU as well as Residence Hall administrators have made progress in documenting past, current and future investment in energy upgrades within the Residence Hall System.

### REBUILD BREAKING NEWS

#### Belding Areas School District Recognition for Best Practices

Energy efficiency achieved in Belding Area Schools through the use of the EnergyStar Labeling system and Rebuild Michigan energy services is being showcased in the new School Operations and Maintenance Manual: BEST PRACTICES FOR CONTROLLING ENERGY COSTS. In this document, Belding Schools serve as an example of how long term energy programs can be sustained through operational and maintenance procedures. Way to go Belding! The case studies in this document published by Rebuild America relate experience-based observations to school district staff and relay advice given by people who have experienced it firsthand. This document will be available on Rebuild America's website in early October at [www.rebuild.org](http://www.rebuild.org)

MI DEPT. OF  
LABOR & ECONOMIC  
GROWTH  
ENERGY OFFICE

611 W. OTTAWA  
P.O. Box 30221  
LANSING, MI 48909

PHONE: 517-241-6228

EMAIL:

CMHASSEN@MICHIGAN.GOV

WEBSITE: [WWW.MICHIGAN.GOV/EOREBUILD](http://WWW.MICHIGAN.GOV/EOREBUILD)

## REBUILD MICHIGAN PARTNER UPDATE

This quarter Rebuild Michigan has enrolled twelve new partners. The table to the right lists each new partner, the square footage they have committed to energy improvements, and potential energy savings.

Since September 2003, 75 school districts, local governments, and public housing authorities have become part of our program. Newly enrolled partners have pledged a total of 17,608,354 square feet to energy efficiency projects, with an estimated annual cost savings of \$3,082,423 and an estimated investment of \$22,338,879.

We are excited to announce that between the months of January and August, 32 partners have reported completed projects. Partners completed energy efficiency projects on approximately 18,356,770 square feet with a total energy investment of \$19,083,607, and estimated annual cost savings of \$3,608,885. Many projects involved the use of energy management systems, T-8 fluorescent lighting, boiler and window replacements, as well as mechanical controls and more efficient plumbing systems.

\* These numbers were calculated on the Rebuild America website and may not reflect the actual annual energy savings available.

Name	Square Feet	*Potential Annual Energy Savings (MMBTU)
Baldwin Comm. Schools	148,300	2,966
City of Ishpeming	70,370	2,815
Laker School District	189,023	3,780
Onkama Consolidated Schools	99,000	1,980
St. Joseph Schools	696,100	13,922
City of Munising	59,192	2,368
Escanaba Housing Commission	116,015	2,320
Houghton County	123,533	4,941
Negaunee/Ishpeming Water Authority	9,070	363
City of Gladstone	73,691	2,948
City of Negaunee	115,134	2,948
Western Michigan University	819,818	40,991

## REBUILD MICHIGAN SECTOR UPDATES

- Rebuild MI's newest sector involvement is with Public Housing Authorities. Rebuild Michigan aims to motivate and assist Public Housing Authorities to launch energy efficiency and renewable energy projects in their facilities and surrounding community. In July, 2004 Rebuild Michigan released a Request for Proposals to the largest Public Housing Authorities to form a community partnership with Rebuild America and Rebuild Michigan. Although no proposals were received for the Rebuild America model partner grant, Escanaba Housing Commission has decided to become a Rebuild Michigan Partner and is now accessing our complimentary energy services. If you would like more information about our newest addition please contact Jan Patrick at (517) 241-6228 or [jpatri@michigan.gov](mailto:jpatri@michigan.gov).
- Fraser Public School District and Elkton-Pigeon-Bayport-Laker School District were selected to become EnergySmart School pilot programs. Both districts expressed enthusiasm for incorporating energy education into their curriculum as well as supplementing the curriculum with extra-curricular energy activities such as an "energy club" or "alternative energy fair" that would encourage others in the district to participate. If you have any questions about the EnergySmart Schools program please contact Tim Shireman at (517) 241-6281.

## REBUILD MICHIGAN WORKSHOP ANNOUNCEMENTS

### Rebuild Michigan Advanced Design and Technologies for High Performance Buildings

On August 24, 2004 Rebuild MI hosted a workshop at the Michigan Historical Library for public institutions interested in advanced high performance building design and energy efficient technologies. Architects, engineers, facility and energy managers as well as school and local government officials were invited to attend. Presentations were given on lighting, building envelope, energy modeling, site design, commissioning, roofing, and heating ventilation/air conditioning.

The workshop was a success with approximately 65 people in attendance. Comments from 38 of the workshop attendees indicated that the workshop was very useful to them. One attendee responded saying, "it was very innovative and covered a good variety of areas," another thought the knowledge he received was very useful. Preliminary evaluation results show that the workshop received a 4.32 rating on a scale of 1-5, where 5 was an "excellent".

This was the second of two high performance building workshops hosted in conjunction with Rebuild America. The first focused on basic information about energy efficient technologies within school buildings. The second expanded upon the preliminary topics giving a more in-depth and technical perspective. On January 13th, 2005 Rebuild MI will host a Technical Energy Analysis workshop for energy consultants and engineers interested in becoming a part of our pre-qualified list for technical energy analyses.

To access presentations from past workshops please go to [www.michigan.gov/energyoffice](http://www.michigan.gov/energyoffice) and click on "workshops" under the menu bar.

### ► FEATURED PUBLICATIONS ◀

#### **Build It Right: Cleaner**

#### **Energy for Better Buildings**

Many of the technologies that allow a transformation toward green buildings, which use energy efficiently and incorporate renewable technology, are available now. Learn how building codes, expanded research, development, and deployment, financing tools, education and training, and financial incentives are places where governments can further the public interest in green buildings and jump-start the market.

#### **Finding Money for Your Energy Efficient Projects**

This is an Energy Star Program primer for Public Sector energy, facility, and financial managers. This article describes how tax-exempt lease purchase agreements and performance contracts can provide a source of financing for energy projects. It also provides financial reasoning and cost modeling information to demonstrate how energy projects can be supported in existing operating budgets.

#### **The Greening of Public Housing Projects**

This six-page article is a reprint from the National Association of Housing & Redevelopment Officials' (NAHRO) Journal of Housing and Community Development March/April 2003 issue. It outlines efforts that Rebuild America is making to support energy-efficiency in public housing. NAHRO is a Rebuild America Strategic Partner.

Publications are available in the Rebuild America Solution Center at [www.rebuild.org](http://www.rebuild.org).

MI DEPT. OF LABOR & ECONOMIC GROWTH  
ENERGY OFFICE  
611 WEST OTTAWA AVE.  
P.O. BOX 30221  
LANSING, MI 48909

## ENERGY EVENTS

### **Michigan Solar Tour October 2, 2004**

Contact: GLREA:(517) 646-6269 or Urban Options:  
(517) 337-0422  
websites: [www.ases.org](http://www.ases.org);  
[www.glrea.org](http://www.glrea.org);  
[www.urbanoptions.org](http://www.urbanoptions.org)

### **Making Your Home More Energy Efficient Oct. 9, 10 am to 11:30 am**

Pierce Cedar Creek Institute  
w/ Urban Options  
website:  
[www.cedarcreekinstitute.org](http://www.cedarcreekinstitute.org)

### **Industrial Applications of Renewable Resources: A Conference on Sustainable Technologies October 11-14**

Contact: Terri Reifsteck,  
Phone: (217) 359-5401  
Email: [terrir@aocs.org](mailto:terrir@aocs.org)  
Website: [www.aocs.org/](http://www.aocs.org/)

### **Alternative Energy Technology Conference: Gearing up for a New Energy Era October 14, 2004, 9am-7:30pm**

Traverse City, MI  
Contact: 231-995-1700  
Email: [bqueen@nmc.edu](mailto:bqueen@nmc.edu)

### **U.S. Department of Energy BestPractices Steam Qualified Specialist Training Program October 25 - 27, 2004**

Three Rivers, MI  
Contact: Tony Wright,  
[wrightal@ornl.gov](mailto:wrightal@ornl.gov)  
or 865-574-6878

### **Waste Reduction & Energy Efficiency Conference October 26, 2004**

Burton Manor, Livonia  
[www.michigan.gov/  
deq/0,1607,7-135-  
3308\\_3333\\_4169---,00.html](http://www.michigan.gov/deq/0,1607,7-135-3308_3333_4169---,00.html)